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$\Lambda M$	ENDMENT NO. Calendar No.
Pui	pose: In the nature of a substitute.
IN	THE SENATE OF THE UNITED STATES-115th Cong., 2d Sess.
	S. 3277
	To reduce regulatory burdens and streamline processes ated to commercial space activities, and for other purposes.
Re	eferred to the Committee on and ordered to be printed
	Ordered to lie on the table and to be printed
Λм	ENDMENT IN THE NATURE OF A SUBSTITUTE intended to be proposed by Mr. CRUZ (for himself, Mr. Nelson, and Mr. Markey)
Viz	
1	Strike all after the enacting clause and insert the fol-
2	lowing:
3	SECTION 1. SHORT TITLE; TABLE OF CONTENTS.
4	(a) SHORT TITLE.—This Act may be cited as the
5	"Space Frontier Act of 2019".
6	(b) Table of Contents.—The table of contents of
7	this Act is as follows:
	Sec. 1. Short title; table of contents. Sec. 2. Definitions.
	TITLE 1—STREAMLINING OVERSIGHT OF LAUNCH AND REENTRY ACTIVITIES
	<ul> <li>Sec. 101. Office of Commercial Space Transportation.</li> <li>Sec. 102. Use of existing authorities.</li> <li>Sec. 103. Experimental permits.</li> <li>Sec. 104. Space-related advisory rulemaking committees.</li> </ul>

- Sec. 105. Government-developed space technology.
- Sec. 106. Regulatory reform:
- Sec. 107. Secretary of Transportation oversight and coordination of commercial launch and reentry operations.
- Sec. 108. Study on joint use of spaceports.
- Sec. 109. Airspace integration report.

## TITLE H—STREAMLINING OVERSIGHT OF NONGOVERNMENTAL EARTH OBSERVATION ACTIVITIES

- Sec. 201. Nongovernmental Earth observation activities.
- Sec. 202. Radio-frequency mapping report.

## TITLE III-MISCELLANEOUS

- Sor. 301. Promoting fairness and competitiveness for NASA partnership opportunities.
- Sec. 302. Lease of non-excess property.
- Sec. 303. Maintaining a national laboratory in space.
- Sec. 304. Presence in low-Earth orbit.
- Sec. 305. Continuation of the ISS.
- Sec. 306. United States policy on orbital debris.
- Sec. 307. Low-Earth orbit commercialization program,
- Sec. 308. Bureau of Space Commerce.

## 1 SEC. 2. DEFINITIONS.

- 2 In this Act:
- 3 (1) ISS.—The term "ISS" means the Inter-
- 4 national Space Station.
- 5 (2) NASA.—The term "NASA" means the Na-
- 6 tional Aeronautics and Space Administration,
- 7 (3) NOAA.—The term "NOAA" means the Na-
- 8 tional Oceanic and Atmospheric Administration.

1	TITLE I—STREAMLINING OVER-
2	SIGHT OF LAUNCH AND RE-
3	ENTRY ACTIVITIES
4.	SEC. 101. OFFICE OF COMMERCIAL SPACE TRANSPOR-
5	TATION.
6	(a) In General.—Section 50921 of title 51, United
7	States Code, is amended—
8	(1) by inserting "(b) AUTHORIZATION OF AP-
9	PROPRIATIONS.—" before "There" and indenting
10	appropriately; and
11	(2) by inserting before subsection (b), the fol-
12	lowing:
13	"(a) ASSOCIATE ADMINISTRATOR FOR COMMERCIAL
14	SPACE TRANSPORTATION.—The Assistant Secretary for
15	Commercial Space Transportation shall serve as the Asso-
16	ciate Administrator for Commercial Space Transpor-
17	tation.".
18	(b) ESTABLISHMENT OF ASSISTANT SECRETARY FOR
19	COMMERCIAL SPACE TRANSPORTATION.—Section
20	102(e)(1) of title 49, United States Code, is amended—
21	(1) in the matter preceding subparagraph $(\Lambda)$ ,
22	by striking "6" and inserting "7"; and
23	(2) in subparagraph (A), by inserting "Assist-
24	ant Secretary for Commercial Space Transpor-

1	tation," after "Assistant Secretary for Research and
2	Technology;".
3	SEC. 102. USE OF EXISTING AUTHORITIES.
4	(a) SENSE OF CONGRESS.—It is the sense of Con-
5	gress that the Secretary of Transportation should make
6	use of existing authorities, including waivers and safety
7	approvals, as appropriate, to protect the public, make
8	more efficient use of resources, reduce the regulatory bur-
9	den for an applicant for a commercial space launch or re-
10	entry license or experimental permit, and promote com-
11	mercial space launch and reentry.
12	(b) LICENSE APPLICATIONS AND REQUIREMENTS.—
13	Section 50905 of title 51, United States Code, is amend-
14	ed—
15	(1) in subsection (a)—
1 <b>6</b>	(A) by amending paragraph (1) to read as
.17	follows:
18	"(1) IN GENERAL.—
19	"(A) Applications.—A person may apply
20	to the Secretary of Transportation for a license
21	or transfer of a license under this chapter in
22	the form and way the Secretary prescribes.
23	"(B) DECISIONS.—Consistent with the
24	public health and safety, safety of property, and
25	national security and foreign policy interests of

1	the United States, the Secretary, not later than
2	the applicable deadline described in subpara-
3	graph (C), shall issue or transfer a license if
4	the Secretary decides in writing that the appli-
5	cant complies, and will continue to comply, with
б	this chapter and regulations prescribed under
7	this chapter.
8	"(C) APPLICABLE DEADLINE.—The appli-
9	cable deadline described in this subparagraph
10	shall be—
11	"(i) for an applicant that was or is a
12	holder of any license under this chapter,
13	not later than 90 days after accepting an
14	application in accordance with criteria es-
15	tablished pursuant to subsection (b)(2)(E);
16	and
17	"(ii) for a new applicant, not later
18	than 180 days after accepting an applica-
19	tion in accordance with criteria established
20	pursuant to subsection $(b)(2)(E)$ .
21	"(D) NOTICE TO APPLICANTS.—The Sec-
22	retary shall inform the applicant of any pending
23 ′	issue and action required to resolve the issue if
24	the Secretary has not made a decision not later
25	thau—

1	"(i) for an applicant described in sub-
2	paragraph (C)(i), 60 days after accepting
3.	an application in accordance with criteria
4	established pursuant to subsection
<b>5</b> °	(b)(2)(E); and
6	"(ii) for an applicant described in sub-
7	paragraph (C)(ii), 120 days after accepting
8	an application in accordance with criteria
9	established pursuant to subsection
10	(b)(2)(E).
11	"(E) NOTICE TO CONGRESS.—The Sec-
12	retary shall transmit to the Committee on Com-
13	merce, Science, and Transportation of the Sen-
14	ate and the Committee on Science, Space, and
1 <b>5</b>	Technology of the House of Representatives a
16	written notice not later than 30 days after any
17	occurrence when the Secretary has not taken
18	action on a license application within an appli-
19	cable deadline established by this subsection.";
20	and
21	(B) in paragraph (2)—
22	(i) by inserting "PROCEDURES FOR
23	SAFETY APPROVALS.—" before "In car-
24	rying out";

1	(ii) by inserting "software," after
2	"services,"; and
3	(iii) by adding at the end the fol-
4	lowing: "Such safety approvals may be
5	issued simultaneously with a heense under
6	this chapter."; and
7	(2) by adding at the end the following:
8	"(e) Use of Existing Authorities.—
9.	"(1) IN GENERAL.—The Sceretary shall use ex-
10	isting authorities, including waivers and safety ap-
1.1	provals, as appropriate, to make more efficient use
12	of resources, reduce the regulatory burden for an ap-
13	plicant under this section, and promote commercial
14	space launch and reentry.
15	"(2) EXPEDITING SAFETY APPROVALS.—The
16	Secretary shall expedite the processing of safety ap-
17	provals that would reduce risks to health or safety
18	during launch and reentry.".
19	(e) RESTRICTIONS ON LAUNCHES, OPERATIONS, AND
20	REENTRIES.—Section 50904 of title 51, United States
21	Code, is amended by adding at the end the following:
22	"(e) MULTIPLE SITES.—The Secretary may issue a
23	single license or permit for an operator to conduct launch
24	services and reentry services at multiple launch sites or
25	reentry sites.".

1	SEC. 103. EXPERIMENTAL PERMITS.
2	Section 50906 of title 51. United States Code, is
3	amended by adding at the end the following:
4	"(j) Use of Existing Authorities.—
5	"(1) IN GENERAL.—The Secretary shall use ex-
6	isting authorities, including waivers and safety ap-
7	provals, as appropriate, to make more efficient use
8	of resources, reduce the regulatory burden for an ap-
9	plicant under this section, and promote commercial
10	space launch and reentry.
11	"(2) Expediting safety approvals.—The
12	Secretary shall expedite the processing of safety ap-
13	provals that would reduce risks to health or safety
14	during launch and reentry.".
15	SEC. 104. SPACE-RELATED ADVISORY RULEMAKING COM-
16	mittees.
17	Section 50903 of title 51, United States Code, is
18	amended by adding at the end the following:
19	"(e) FACA—The Federal Advisory Committee Act
20	(5 U.S.C. App.) does not apply to such space-related rule-
21	making committees under the Secretary's jurisdiction as
22	the Secretary shall designate.".
23	SEC. 105. GOVERNMENT-DEVELOPED SPACE TECHNOLOGY.
24	Section 50901(b)(2)(B) of title 51, United States
25	Code, is amended by striking "and encouraging".

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4	SEC. 100. REGUERIORI	HELDE CHEMA	

- 2 (a) Definitions.—The definitions set forth in sec-
- 3 tion 50902 of title 51, United States Code, shall apply
- 4 to this section.
- 5 (b) FINDINGS.—Congress finds that the commercial
- 6 space launch regulatory environment has at times impeded
- 7 the United States commercial space launch sector in its
- 8 innovation of launch technologies, reasable launch and re-
- 9 entry vehicles, and other areas related to commercial
- 10 faunches and reentries.
- 11 (c) Regulatory Improvements for Commercial
- 12 SPACE LAUNCH ACTIVITIES.—
- 13 (1) IN GENERAL,—Not later than February 1,
- 14 2019, the Secretary of Transportation shall issue a
- 15 notice of proposed rulemaking to revise any regula-
- tions under chapter 509, United States Code, as the
- 17 Secretary considers necessary to meet the objective
- 18 of this section.
- 19 (2) Objective.—The objective of this section
- 20 is to establish, consistent with the purposes de-
- 21 scribed in section 50901(b) of title 51, United States
- 22 Code, a regulatory regime for commercial space
- 23 launch activities under chapter 509 that—
- 24 (A) ereates, to the extent practicable, re-
- 25 quirements applicable both to expendable

1		launch and reentry vehicles and to reusable
2.		launch and reentry vehicles;
3		(B) is neutral with regard to the specific
4		technology utilized in a launch, a reentry, or an
5		associated safety system;
6		(C) protects the health and safety of the
7		public;
8		(D) establishes clear, high-level perform-
9		ance requirements:
10		(E) encourages voluntary, industry tech-
11		nical standards that complement the high-level
12		performance requirements established under
13		subparagraph (D); and
14		(F) facilitates and encourages appropriate
15		collaboration between the commercial space
16		launch and reentry sector and the Department
17		of Transportation with respect to the require-
18.		ments under subparagraph (D) and the stand-
19		ards under subparagraph (E).
20	(d)	CONSULTATION.—In revising the regulations
21	under sul	esection (e), the Secretary of Transportation shall
22	consult w	ith the following:
23		(1) Secretary of Defense.
24		(2) Administrator of NASA

l	(3) Such members of the commercial space
2	launch and reentry sector as the Secretary of Trans-
3	portation considers appropriate to ensure adequate
4	representation across industry.
5	(e) REPORT.—
6	(1) IN GENERAL.—Not later than 60 days after
7	the date of enactment of this Act, the Secretary of
8	Transportation, in consultation with the persons de-
9	scribed in subsection (d), shall submit to the Com-
10	mittee on Commerce, Science, and Transportation of
11	the Senate and the Committee on Science, Space,
12	and Technology and the Committee on Transpor-
13	tation and Infrastructure of the House of Represent-
14	atives a report on the progress in carrying out this
15	section.
16	(2) Contents.—The report shall include—
17	$(\Lambda)$ milestones and a schedule to meet the
18	objective of this section;
19	(B) a description of any Federal agency re-
20	sources necessary to meet the objective of this
21	section;
22	(C) recommendations for legislation that
23	would expedite or improve the outcomes under
24	subsection (c); and

1	(D) a plan for ongoing consultation with
2	the persons described in subsection (d).
3	SEC. 107. SECRETARY OF TRANSPORTATION OVERSIGHT
4	AND COORDINATION OF COMMERCIAL
5	LAUNCH AND REENTRY OPERATIONS.
6	(a) OVERSIGHT AND COORDINATION:—
7	(1) IN GENERAL.—The Secretary of Transpor-
8	tation, in accordance with the findings under section
9	1617 of the National Defense Anthorization Act for
10	Fiscal Year 2016 (51 U.S.C. 50918 note) and sub-
11	jest to section 50905(b)(2)(C) of title 51, United
12	States Code, shall take such action as may be nec-
13	essary to consolidate or modify the requirements
14	across Federal agencies identified in section
15	1617(c)(1)(A) of that Act into a single application
16	set that satisfies those requirements and expedites
17	the coordination of commercial launch and reentry
18	services.
19	(2) Chapter 509.—
20	(A) Purposes.—Section 50901 of title 51,
21	United States Code, is amended by inserting
<b>2</b> 2	"all" before "commercial launch and reentry
23	operations".

1	(B) GENERAL AUTHORITY.—Section
2	50903(b) of title 51, United States Code, is
3	amended—
4	(i) by redesignating paragraphs (1)
5	and (2) as paragraphs (3) and (4), respec-
6	tively; and
7	(ii) by inserting before paragraph (वे),
8	as redesignated, the following:
9	"(1) consistent with this chapter, authorize, li-
10	cense, and oversee the conduct of all commercial
11	launch and reentry operations, including any com-
12	mercial launch or commercial reentry at a Federal
13	rangë;
14	"(2) if an application for a license or permit
1.5	under this chapter includes launch or reentry at a
16	Defense range, coordinate with the Secretary of De-
17	fense, or designee, to protect any national security
18	interest relevant to such activity, including any nec-
19	essary mitigation measure to protect Department of
20	Defense property and personnel;"
21	(3) EFFECTIVE DATE.—This subsection takes
22	effect on the date the final rule under section 107(c)
23	of this Act is published in the Federal Register.

1	(b) Rules of Construction.—Nothing in this Act,
2	or the amendments made by this Act, may be construed
3	to affect—
4	(1) section 1617 of the National Defense Au-
5	thorization Act for Fiscal Year 2016 (51 U.S.C.
6	50918 note); or
7	(2) the authority of the Secretary of Defense as
8	it relates to safety and security related to launch or
9	reentry at a Defense range.
0	(e) TECHNICAL AMENDMENT; REPEAL REDUNDANT
1	Law.—Section 113 of the U.S. Commercial Space Launch
2	Competitiveness Act (Public Law 114–90; 129 Stat. 704)
13	and the item relating to that section in the table of cou-
4	tents under section 1(b) of that Act are repealed.
5	SEC. 108, STUDY ON JOINT USE OF SPACEPORTS.
lб	(a) IN GENERAL.—Not later than 180 days after the
17	date of enactment of this Act—
8	(1) the Secretary of Transportation shall, in
9	consultation with the Secretary of Defense, conduct
20	a study of the current process the Government uses
21	to provide or permit the joint use of United States.
22	military installations for licensed nongovernmental
23	space launch and reentry activities, space-related ac-
24	tivities, and space transportation services by United
15	States commercial providers: and

1	(2) submit the results of the study to the Com-
2	mittee on Commerce, Science, and Transportation
3	and the Committee on Armed Services of the Senate
4	and the Committee on Science, Space, and Tech-
5	nology and the Committee on Armed Services of the
6	House of Représentatives.
7	(b) CONSIDERATIONS.—In conducting the study re-
8	quired by subsection (a), the Secretary of Transportation
9	shall consider the following:
10	(1) Improvements that could be made to the
11	current process the Government uses to provide or
12	permit the joint use of United States military instal-
13	lations for licensed nongovernmental space launch
14	and reentry activities, space-related activities, and
15	space transportation services by United States com-
16	mercial providers,
1.7	(2) Means to facilitate the ability for a military
18	installation to request that the Secretary of Trans-
19	portation consider the military installation as a site
20	to provide or permit the licensed nongovernmental
21	space launch and reentry activities, space-related ac-
<b>22</b> ,	tivities, and space transportation services by United
23	States commercial providers.
24	(3) The feasibility of increasing the number of
25	military installations that provide or are permitted

1	to be utilized for licensed nongovernmental space
2	launch and reentry activities, space-related activities,
3	and space transportation services by United States
4	commercial providers.
5.	(4) The importance of the use of safety approv-
6	als of launch vehicles, reentry vehicles, space trans-
7	portation vehicles, safety systems, processes, serv-
8	ices, or personnel (including approval procedures for
9	the purpose of protecting the health and safety of
1.0	crew, Government astronauts, and space flight par-
11	ticipants), to the extent permitted that may be used
12	in conducting licensed commercial space launch, re-
13	entry activities, and space transportation services at
14	installations.
15	SEC. 109. AIRSPACE INTEGRATION REPORT.
16	(a) In General.—Not later than 90 days after the
17	date of enactment of this Act, the Secretary of Transpor-
18	tation shall—
19	(1) identify and review the current policies and
20	tools used to integrate launch and reentry (as those
21	terms are defined in section 50902 of title 51,
22	United States Code) into the national airspace sys-
23	tem;
24	(2) consider whether the policies and tools iden-
25	tified in paragraph (1) need to be updated to more

1	efficiently and safely manage the national airspace
2	system; and
3	(3) submit to the appropriate committees of
4.	Congress a report on the findings under paragraphs
5	(1) and (2), including recommendations for how to
6	more efficiently and safely manage the national air-
7	space system.
8	(b) Consultation.—In conducting the review under
9	subsection (a), the Secretary shall consult with such mem-
0	bers of the commercial space launch and reentry sector
1	and commercial aviation sector as the Secretary considers
12	appropriate to ensure adequate representation across
13	those industries.
14	(e) DEFINITION OF APPROPRIATE COMMITTEES OF
L <b>5</b>	CONGRESS.—In this section, the term "appropriate com-
6	mittees of Congress" means—
7	(1) the Committee on Commerce, Science, and
8	Transportation of the Senate;
9	(2) the Committee on Science, Space, and
20	Technology of the House of Representatives; and
21	(3) the Committee on Transportation and In-
22	fractionating of the House of Representatives

1	TITLE II—STREAMLINING OVER-
2	SIGHT OF NONGOVERN-
3	MENTAL EARTH OBSERVA-
4	TION ACTIVITIES
5	SEC. 201. NONGOVERNMENTAL EARTH OBSERVATION AC-
6	TIVITIES.
7	(a) LICENSING OF NONGOVERNMENTAL EARTH OB-
8	SERVATION ACTIVITIES.—Chapter 601 of title 51, United
9	States Code, is amended—
10	(1) in section 60101—
11	(A) by amending paragraph (12) to read
12	as follows:
13	"(12) UNENHANCED DATA.—The term
14	'unenhanced data' means signals or imagery prod-
15	uets from Earth observation activities that are un-
16	processed or subject only to data preprocessing.";
17	(B) by redesignating paragraphs (12) and
18	(13) as paragraphs (18) and (19), respectively;
19	(C) by redesignating paragraph (11) as
20	paragraph (15);
21	(D) by redesignating paragraphs (4)
22	through (10) as paragraphs (5) through (11),
23	respectively;
24	(E) by inserting after paragraph (3), the
25	following:

1	"(4) EARTH OBSERVATION ACTIVITY.—The
2	term 'Earth observation activity' means a space ac-
3	tivity the primary purpose of which is to collect data
4	that can be processed into imagery of the Earth or
5	of man-made objects orbiting the Earth.";
6	(F) by inserting after paragraph (11), as
7	redesignated, the following:
8	"(12) NONGOVERNMENTAL EARTH OBSERVA-
9	TION ACTIVITY.—The term 'nongovernmental Earth
10	observation activity' means an Earth observation ac-
11	tivity of a person other than—
12	"(A) the United States Government; or
13	"(B) a Government contractor or subcon-
14	tractor if the Government contractor or subcon-
15	tractor is performing the activity for the Gov-
16	ernment.
17	"(13) Orbital Debris.—The term 'orbital de-
18	bris' means any space object that is placed in space
19	or derives from a space object placed in space by a
20	person, remains in orbit, and no longer serves any
21	useful function or purpose.
22	"(14) Person.—The term 'person' means a
23	person (as defined in section 1 of title 1) subject to
24	the jurisdiction or control of the United States.";
25	and

1	(G) by inserting after paragraph (15), as
2	redesignated, the following:
3	"(16) SPACE ACTIVITY.—"
4	"(A) IN GENERAL.—The term 'space activ-
5	ity' means any activity that is conducted in
6	space.
7	"(B) Inclusions.—The term 'space activ-
8	ity' includes any activity conducted on a celes-
9	tial body, including the Moon.
10	"(C) Exclusions.—The term 'space activ-
11	ity' does not include any activity that is con-
12	ducted entirely on board or within a space ob-
13	ject and does not affect another space object.
14	"(17) SPACE OBJECT.—The term 'space object'
15	means any object, including any component of that
16	object, that is launched into space or constructed in
17	space, including any object landed or constructed on
1,8	a celestial body, including the Moon.";
19	(2) by amending subchapter III to read as fol-
20	lows:
21	"SUBCHAPTER III—AUTHORIZATION OF NON-
22	GOVERNMENTAL EARTH OBSERVATION AC-
23	TIVITIES
24	"§ 60121. Purposes
25	"The purposes of this subchapter are—

1	"(1) to prevent, to the extent practicable, harm-
2	ful interference to space activities by nongovern-
3	mental Earth observation activities;
4	"(2) to manage risk and prevent harm to
5	United States national security;
6	"(3) to ensure consistency with international
7	obligations of the United States; and
8	"(4) to promote the leadership, industrial inno-
9	vation, and international competitiveness of the
10	United States.
11	"§ 60122. General authority
12	"(a) IN GENERAL.—The Secretary shall carry out
13	this subchapter.
14	"(b) FUNCTIONS.—In carrying out this subchapter,
1.5	the Secretary shall consult with—
16	"(1) the Sccretary of Defense;
17	"(2) the Director of National Intelligence; and
18	"(3) the head of such other Federal department
19	or agency as the Secretary considers necessary.
20	"§ 60123. Administrative authority of Secretary
21	"(a) FUNCTIONS.—In order to carry out the respon-
22	sibilities specified in this subchapter, the Secretary may—
23	"(1) grant, condition, or transfer licenses under
24	this chapter;

1	"(2) seek an order of injunction or similar judi-
2	cial determination from a district court of the
3	United States with personal jurisdiction over the li-
4	censee to terminate, modify, or suspend licenses
5	under this subchapter and to terminate licensed op-
6	erations on an immediate basis, if the Secretary de-
7	termines that the licensee has substantially failed to
8	comply with any provisions of this chapter, with any
9	terms, conditions, or restrictions of such license, or
10	with any international obligations or national secu-
11	rity concerns of the United States;
12	"(3) provide penalties for noncompliance with
13	the requirements of licenses or regulations issued
14	under this subchapter, including civil penalties not
15	to exceed \$10,000 (each day of operation in violation
16	of such licenses or regulations constituting a sepa-
17	rate violation);
18	"(4) compromise, modify, or remit any such
19	civil penalty;
20	"(5) issue subpoenas for any materials, docu-
21	ments, or records, or for the attendance and testi-
22	mony of witnesses for the purpose of conducting a
23	liearing under this section;
24	"(6) seize any object, record, or report pursuant
25	to a warrant from a magistrate based on a showing

1	of probable cause to believe that such object, record,
2	or report was used, is being used, or is likely to be
3	used in violation of this chapter or the requirements
4	of a license or regulation issued thereunder; and
5	"(7) make investigations and inquiries and ad-
6	minister to or take from any person an oath, affir-
7	mation, or affidavit concerning any matter relating
8	to the enforcement of this chapter.
9	"(b) REVIEW OF AGENCY ACTION.—Any applicant or
10	licensee that makes a timely request for review of an ad-
11	verse action pursuant to paragraph (1), (3), (5), or (6)
12	of subsection (a) shall be entitled to adjudication by the
13	Secretary on the record after an opportunity for any agen-
14	ey hearing with respect to such adverse action. Any final
15	action by the Secretary under this subsection shall be sub-
16	ject to judicial review under chapter 7 of title 5.
17	"§ 60124. Authorization to conduct nongovernmental
18	Earth observation activities
19	"(a) REQUIREMENT.—No person may conduct any
20	nongovernmental Earth observation activity without an
21	authorization issued under this subchapter.
22	"(b) WAIVERS.—
23	"(1) In GENERAL.—The Secretary, in consulta-
24	"(1) In GENERAL.—The Secretary, in consulta- tion with the Secretary of Defense and the head of
25	such other Federal agency as the Secretary con-

1	siders appropriate, may waive a requirement under
2	this subchapter for a nongovernmental Earth obser-
3	vation activity, or for a type or class of nongovern-
4	mental Earth observation activities, if the Secretary
5	decides that granting a waiver is consistent with sec-
6	tion 60121.
7	"(2) STANDARDS.—Not later than 120 days
8	ufter the date of enactment of the Space Frontier
9	Act of 2019, the Secretary shall establish standards,
10	in consultation with the Secretary of Defense and
11	the head of such other Federal agency as the Sec-
12	retary considers appropriate, for determining de
13	minimis Earth observation activities that would be
14	eligible for a waiver under paragraph (1).
15	"(e) COVERAGE OF AUTHORIZATION.—The Secretary
16	shall, to the maximum extent practicable, require a single
17	authorization for a person—
18	"(1) to conduct multiple Earth observation ac-
19	tivities using a single space object;
20	"(2) to operate multiple space objects carrying
21	out substantially similar Earth observation activities;
22	์ซิน
23	"(3) to use multiple space objects to carry out
24	a single Earth observation activity.
25	"(d) APPLICATION.—

1	"(1) In GENERAL.—A person seeking an au-
2	thorization under this subchapter shall submit an
3	application to the Secretary at such fime, in such
4	manner, and containing such information as the Sec-
5	retary may require for the purposes described in sec-
6	tion 60121, including—
7	"(A) a description of the proposed Earth
8	observation activity, including—
9	"(i) a physical and functional descrip-
10	tion of each space object;
11	"(ii) the orbital characteristics of each
12	space object, including altitude, inclination,
13	orbital period, and estimated operational
14	lifetime; and
15	"(iii) a list of the names of all persons
16	that have or will have direct operational or
17	financial control of the Earth observation
18	activity;
19	"(B) a plan to prevent orbital debris con-
20	sistent with the 2001 United States Orbital De-
21	bris Mitigation Standard Practices or any sub-
22	sequent revision thereof; and
23	"(C) a description of the capabilities of
24	each instrument to be used to observe the

1	Earth in the conduct of the Earth observation
2	activity:
3	"(2) APPLICATION STATUS.—Not later than 14
4	days after the date of receipt of an application, the
5	Secretary shall make a determination whether the
6	application is complete or incomplete and notify the
7	applicant of that determination, including, if incom-
8	plete, the reason the application is incomplete.
9	"(e) REVIEW.—
10	"(1) IN GENERAL.—Not later than 90 days
11	after the date that the Secretary makes a determina-
12	tion under subsection (d)(2) that an application is
13	complete, the Secretary shall review all information
14	provided in that application and, subject to the pro-
15	visions of this subsection, notify the applicant in
16	writing whether the application was approved, with
17	or without conditions, or denied.
18	"(2) APPROVALS.—The Secretary shall approve
19	an application under this subsection if the Secretary
20	determines that—
21	"(A) the Earth observation activity is con-
22	sistent with the purposes described in section
23	60121: and

1	"(B) the applicant is in compliance, and
2	will continue to comply, with this subchapter,
3	including regulations.
4	"(3) Denials.—
5	"(A) IN GENERAL.—If an application
6	under this subsection is denied, the Secretary-
7	"(i) shall include in the notification
8	under paragraph (1)—
9	"(I) a reason for the denial; and
10	"(II) a description of each defi-
11	ciency, including guidance on how to
12	correct the deficiency;
13	"(ii) shall sign the notification under
14	paragraph (1);
15	"(iii) may not delegate the duty under
16	clause (ii); and
17	"(iv) shall submit to the Committee
18	on Commerce, Science, and Transportation
19	of the Senate and the Committee on
20	Science, Space, and Technology of the
21	House of Representatives a copy of the no-
22	tification.
23	"(B) INTERAGENCY REVIEW.—Not later
24	than 3 days after the date that the Secretary
25	makes a determination under subsection (d)(2)

1	that an application is complete, the Secretary
2	shall consult with the head of each Federal de-
3	partment and agency described in section
4	60122(b) and if any head of such Federal de-
.5	partment or agency does not support approving
6	the application—
7	"(i) that head of another Federal de-
8	partment or agency-
9	"(I) not later than 60 days after
10	the date of the consultation, shall no-
11	tify the Secretary, in writing, of the
12	reason for withholding support, in-
13	cluding a description of each defi-
14	ciency and guidance on how to correct
15	the deficiency:
16	"(II) shall sign the notification
17	under subclause (I); and
18	"(III) may not delegate the duty
19	under subclause (H), except the Sec-
20	retary of Defense may delegate the
21	duty under subclause (II) to an Under
22	Secretary of Defense; and
23	"(ii) subject to all applicable laws, the
24	Secretary shall include the notification
25	under clause (i) in the notification under

1	paragraph (1), including classified infor-
2	mation if—
3	"(I) the Sceretary of Defense or
4	Director of National Intelligence, as
5	appropriate, determines that disclo-
6	sure of the classified information is
7	appropriate; and
8	"(II) the applicant has the re-
9	quired security clearance for that clas-
10	sified information.
11	"(C) INTERAGENCY ASSENTS.—If the head
12	of another Federal department or agency does
13	not notify the Secretary under subparagraph
14	(B)(i)(I) within the time specified in that sub-
15	paragraph, that head of another Federal de-
16	partment or agency shall be deemed to have as-
17	sented to the application.
18	"(D) INTERAGENCY DISSENTS.—If, during
19	the review of an application under paragraph
20	(1), a head of a Federal department or agency
21	described in subparagraph (B) disagrees with
22	the Secretary or the head of another Federal
23	department or agency described in subpara-
24	graph (B) with respect to a deficiency under
25	this subsection, the Secretary shall submit the

1	matter to the President, who shall resolve the
2	dispute before the applicable deadline under
3	paragraph (1).
4	"(E) DEFICIENCIES.—The Secretary
5	shalj—
6	"(i) provide each applicant under this
7	paragraph with a reasonable opportunity-
8	"(I) to correct each deficiency
9	identified under subparagraph
10	(A)(i)(II); and
11	"(II) to resubmit a corrected ap-
12	plication for reconsideration; and
13	"(ii) not later than 30 days after the
14	date of receipt of a corrected application
15	under clause (i)(II), make a determination
16	whether to approve the application or not,
17	in consultation with—
18	"(I) each head of another Fed-
19	eral department or agency that sub-
20	mitted a notification under subpara-
21	graph (B); and
22	"(II) the head of such other Fed-
23	cral department or agency as the Sce-
24	retary considers necessary.
25	"(F) Improper basis for denial.—

1	"(1) COMPETITION.—The Secretary
2	shall not deny an application under this
3	subsection in order to protect any existing
4	Earth observation activity from competi-
5	tion.
6	"(ii) Capabilities.—The Secretary
7	shall not, to the maximum extent prac-
8	ticable, deny an application under this sub-
9	section based solely on the capabilities of
10	the Earth observation activity if those ca-
11	pabilities—
12	"(I) are commercially available;
13	OI.
14	"(II) are reasonably expected to
15	be made commercially available, not
16	later than 3 years after the date of
17	the application, in the international or
18	domestic marketplace.
19	"(iii) APPLICABILITY.—The prohibi-
20	tion under clause (ii)(II) shall apply wheth-
21.	er the marketplace products and services
22	originate from the operation of aircraft,
23	uncrewed aircraft, or other platforms or
24	technical means or are assimilated from a
25	variety of data sources.

1	"(4) DEADLINE.—If the Secretary does not no-
2	tify an applicant in writing before the applicable
3	deadline under paragraph (1), the Secretary shall,
4	not later than I business day after the date of the
5	applicable deadline, notify the Committee on Com-
6	merce, Science, and Transportation of the Senate
7	and the Committee on Science, Space, and Tech-
8	hology of the House of Representatives of the status
9	of the application, including the reason the deadline
10	was not met.
11	"(5) Expedited review process.—Subject to
12	paragraph (2) of this section and section 60122(b),
13	the Secretary may modify the requirements under
14	this subsection, as the Secretary considers appro-
15	priate, to expedite the review of an application that
16	seeks to conduct an Earth observation activity that
17	is substantially similar to an Earth observation ac-
18	tivity already licensed under this subchapter.
19	"(f) ADDITIONAL REQUIREMENTS.—An authoriza-
20	tion issued under this subchapter shall require the author-
21	ized person—
22	"(1) to be in compliance with this subchapter;
23	"(2) to notify the Secretary of any significant
4	change in the information contained in the applica-
5	tion; and

1	"(3) to make available to the government of
2	any country, including the United States,
3	unenhanced data collected by the Earth observation
4	system concerning the territory under the jurisdic-
5	tion of that government as soon as such data are
б	available and on reasonable commercial terms and
7	conditions.
8	"(g) Prohibition on Retroactive Conditions.—
9	"(1) IN GENERAL.—Except as provided in para-
10	graph (3), the Secretary may not modify any condi-
11	tion on, or add any condition to, an authorization
12	under this subchapter after the date of the author-
13	ization.
14	"(2) RULE OF CONSTRUCTION,—Nothing in
15	this section shall be constructed to prohibit the Sec-
16	retary from removing a condition on an authoriza-
17	tion under this subchapter.
18	"(3) Interagency review.—
19	"(A) In GENERAL.—Subject to subpara-
20	graphs (B) and (E), the Secretary or the head
21	of a Federal department or agency described in
22	section 60122(b) may, without delegation, pro-
23	pose the modification or addition of a condition
24	to an authorization under this subchapter after
25	the data of the anthroperation

1.	"(B) Consultation requirement.—
2	Prior to making the modification or addition
3	under subparagraph (A), the Secretary or the
4	applicable head of the Federal department or
5	agency shall consult with the head of each of
6	the other Federal departments and agencies de-
7	scribed in section 60122(b) and if any head of
8	such Federal department or agency does not
9	support such modification or addition that head
10	of another Federal department or agency—
11	"(i) not later than 60 days after the
12.	date of the consultation, shall notify the
13	Secretary, in writing, of the reason for
14	withholding support;
15	"(ii) shall sign the notification under
16	clause (i); and
17	"(iii) may not delegate the duty under
18	elause (ii).
19	"(C) INTERAGENCY ASSENTS.—If the head
20	of another Federal department or agency does
21	not notify the Secretary under subparagraph
22	(B)(i) within the time specified in that subpara-
23	graph, that head of another Federal department
24	or agency shall be deemed to have assented to

1	the modification or addition under subpara-
2	graph (A).
3	"(D) INTERAGENCY DISSENTS.—If the
4	head of a Federal department or agency de-
5	scribed in subparagraph (A) disagrees with the
6	Secretary or the head of another Federal de-
7	partment or agency described in subparagraph
8	(A) with respect to such modification or addi-
9	tion under this paragraph, the Secretary shall
10	submit the matter to the President, who shall
11	resolve the dispute.
12	"(E) NOTICE.—Prior to making a modi-
13.	fication or addition under subparagraph (A),
14	the Secretary or the head of the Federal de-
15	partment or agency, as applicable, shall—
16	"(i) provide notice to the licensee of
17	the reason for the proposed modification or
18	addition, including, if applicable, a descrip-
19	tion of any deficiency and guidance on how
20	to correct the deficiency; and
21	"(ii) provide the licensce a reasonable
22	opportunity to correct a deficiency identi-
23	fied in clause (i).

## 1 "\$ 60125. Annual reports

2	"(a) IN GENERAL Not later than 180 days after
3	the date of enactment of the Space Frontier Act of 2019
4	and annually thereafter, the Secretary shall submit to the
5.	Committee on Commerce, Science, and Transportation of
6	the Senate and the Committee on Science, Space, and
7	Technology of the House of Representatives a report or
8	the progress in implementing this subchapter, including-
9	"(1) a list of all applications received or pend-
10	ing in the previous calendar year and the status of
11	each such application;
12	"(2) notwithstanding paragraph (4) of section
13	60124(e), a list of all applications, in the previous
14	calendar year, for which the Secretary missed the
15	deadline under paragraph (1) of that section, includ-
16	ing the reasons the deadline was not met; and
17	"(3) a description of all actions taken by the
18	Secretary under the administrative authority grant-
19.	ed under section 60123.
20	"(b) Classified Annexes.—Each report under sub-
21	section (a) may include classified annexes as necessary to
22	protect the disclosure of sensitive or classified information.
23	"(e) CESSATION OF EFFECTIVENESS:—This section
24	ceases to be effective September 30, 2021,

	~ · · · · · · · · · · · · · · · · · · ·
1	"§ 60126. Regulations
2	"The Secretary may promulgate regulations to imple-
3	ment this subchapter.
4	"§ 60127. Relationship to other executive agencies
5	and laws
6	"(a) EXECUTIVE AGENCIES.—Except as provided in
7	this subchapter or chapter 509, or any activity regulated
8	by the Federal Communications Commission under the
9.	Communications Act of 1934 (47 U.S.C. 151 et seq.), a
10	person is not required to obtain from an executive agency
11	a license, approval, waiver, or exemption to conduct a non-
12	governmental Earth observation activity.
13	"(b) RULE OF CONSTRUCTION.—This subchapter
14	does not affect the authority of-
15	"(1) the Federal Communications Commission
16	under the Communications Act of 1984 (47 U.S.C.
17	151 et seq.); or
18	"(2) the Secretary of Transportation under
19	chapter 509 of this title.
20	"(c) NONAPPLICATION.—This subchapter does not
21	apply to any space activity the United States Government
22	carries out for the Government."; and

(3) by amending section 60147 to read as fol-

23

24

lows:

## 1 "§ 60147. Consultation

2	"(a) Consultation With Secretary of De-
3	FENSE.—The Landsat Program Management shall con-
4	sult with the Secretary of Defense on all matters relating
5	to the Landsat Program under this chapter that affect na-
6	tional security. The Secretary of Defense shall be respon-
7	sible for determining those conditions, consistent with this
8	chapter, necessary to meet national security concerns of
9	the United States and for notifying the Landsat Program
10	Management of such conditions.
11	"(b) Consultation With Secretary of State.—
12	"(1) IN GENERAL.—The Landsat Program
13	Management shall consult with the Secretary of
14	State on all matters relating to the Landsat Pro-
15	gram under this chapter that affect international ob-
16	ligations. The Secretary of State shall be responsible
17	for determining those conditions, consistent with this
18	chapter, necessary to meet international obligations
19	and policies of the United States and for notifying
20	the Landsat Program Management of such condi-
21	tions.
22	"(2) INTERNATIONAL AID.—Appropriate United
23	States Government agencies are authorized and en-
24	couraged to provide remote sensing data, technology,
25	and training to developing nations as a component
26	of incommon of interestional rive

1	"(3) Reporting discriminatory distribu-
2	TION.—The Secretary of State shall promptly report
3	to the Landsat Program Management any instances
4	outside the United States of discriminatory distribu-
5	tion of Landsat data.
6	"(c) STATUS REPORT.—The Landsat Program Man-
7	agement shall, as often as necessary, provide to Congress
8	complete and updated information about the status of on-
.9	going operations of the Landsat system, including timely
10	notification of decisions made with respect to the Landsat
11	system in order to meet national security concerns and
12	international obligations and policies of the United States
13	Government.".
14	(b) TABLE OF CONTENTS.—The table of contents of
15	chapter 601 of title 51, United States Code, is amended
16	by striking the items relating to subchapter III and insert-
17	ing the following:
	"SUBCHAPTER HI—AUTHORIZATION OF NONGOVERNMENTAL EARTH OBSERVATION ACTUATIES
	"60121, Purposes. "60122, General authority. "60123, Administrative authority of Secretary. "60124, Authorization to conduct nongovernmental Earth observation activities. "60125, Annual reports. "60126, Regulations. "60127, Relationship to other executive agencies and laws.".
18	(e) RULES OF CONSTRUCTION.—
19	(1) Nothing in this section or the amendments
20	made by this section shall affect any license, or ap-
21	plication for a license, to operate a private remote

1	sensing space system that was made under sub
2	eliapter III of chapter 601 of title 51, United States
3	Code (as in effect before the date of enactment of
4	this Act), before the date of enactment of this Act
5	Such license shall continue to be subject to the re
6	quirements to which such license was subject under
7	that chapter as in effect on the day before the date
8	of enactment of this Act.
9	(2) Nothing in this section or the amendments
10	made by this section shall affect the prohibition or
11	the collection and release of detailed satellite im-
12	agery relating to Israel under section 1064 of the
1.3	National Defense Authorization Act for Fiscal Year
14	1997 (51 U.S.C. 60121 note).
15	SEC. 202. RADIO-FREQUENCY MAPPING REPORT.
16	(a) In General.—Not later than 180 days after the
17	date of enactment of this Act, the Secretary of Commerce.
18	in consultation with the Secretary of Defense and the Di-
19	rector of National Intelligence, shall complete and submit
20	a report on space-based radio-frequency mapping to—
21	(1) the Committee on Commerce, Science, and
22	Transportation of the Senate;
23.	(2) the Select Committee on Intelligence of the
24	Senate;

1	(3) the Committee on Armed Services of the
2	Senate;
3.	(4) the Committee on Science, Space, and
4	Technology of the House of Representatives;
5	(5) the Permanent Select Committee on Intel-
6	ligence of the House of Representatives; and
7.	(6) the Committee on Armed Services of the
8	House of Representatives.
9	(b) CONTENTS.—The report under subsection (a)
10	shall include—
11	(1) a discussion of whether a need exists to reg-
12	ulate space-based radio-frequency mapping;
13	(2) a description of any immitigable impacts of
14	space-based radio-frequency mapping on national se-
15	enrity, United States competitiveness and space
16	leadership, or Constitutional rights;
17	(3) any recommendations for additional regu-
18	latory action regarding space-based radio-frequency
19	mapping;
20	(4) a detailed description of the costs and bene-
21	fits of the recommendations described in paragraph
22	(3); and
23	(5) an evaluation of—
24	(A) whether the development of voluntary
25	consensus industry standards in coordination

1	with the Department of Defense is more appro-
2	priate than issuing regulations with respect to
3	space-based radio-frequency mapping; and
4	(B) whether existing law, including regula-
5	tions and policies, could be applied in a manner
6	that prevents the need for additional regulation
7	of space-based radio-frequency mapping.
-8	(c) FORM.—The report under subsection (a) shall be
9	submitted in unclassified form, but may include a classi-
10	fied annex.
11	TITLE III—MISCELLANEOUS
12	SEC. 301. PROMOTING FAIRNESS AND COMPETITIVENESS
13	FOR NASA PARTNERSHIP OPPORTUNITIES.
	FOR NASA PARTNERSHIP OPPORTUNITIES.  (a) SENSE OF CONGRESS.—It is the sense of Con-
13 14 15	
14	(a) SENSE OF CONGRESS.—It is the sense of Con-
14 15	(a) SENSE OF CONGRESS.—It is the sense of Congress that—
14 15 16	(a) SENSE OF CONGRESS.—It is the sense of Congress that—  (1) fair access to available NASA assets and
14 15 16 17	<ul> <li>(a) Sense of Congress.—It is the sense of Congress that—</li> <li>(1) fair access to available NASA assets and services on a reimbursable, noninterference, equi-</li> </ul>
14 15 16 17 18	<ul> <li>(a) SENSE OF CONGRESS.—It is the sense of Congress that—</li> <li>(1) fair access to available NASA assets and services on a reimbursable, noninterference, equitable, and predictable basis is advantageous in ena-</li> </ul>
14 15 16 17 18	<ul> <li>(a) SENSE OF CONGRESS.—It is the sense of Congress that—</li> <li>(1) fair access to available NASA assets and services on a reimbursable, noninterference, equitable, and predictable basis is advantageous in enabling the United States commercial space industry;</li> </ul>
14 15 16 17 18 19 20	<ul> <li>(a) SENSE OF CONGRESS.—It is the sense of Congress that—</li> <li>(1) fair access to available NASA assets and services on a reimbursable, noninterference, equitable, and predictable basis is advantageous in enabling the United States commercial space industry;</li> <li>(2) NASA should continue to promote fairness</li> </ul>
14 15 16 17 18 19 20 21	<ul> <li>(a) Sense of Concress.—It is the sense of Congress that—</li> <li>(1) fair access to available NASA assets and services on a reimbursable, noninterference, equitable, and predictable basis is advantageous in enabling the United States commercial space industry;</li> <li>(2) NASA should continue to promote fairness to all parties and ensure best value to the Federal</li> </ul>

1	(3) NASA should continue to promote small
2	business awareness and participation through advo-
3	cacy and collaborative efforts with internal and ex-
4	ternal partners, stakeholders, and academia.
5,	(b) GUIDANCE FOR SMALL BUSINESS PARTICIPA-
6	TION.—The Administrator of NASA shall—
7	(1) provide opportunities for the consideration
8	of small business concerns during public-private
.9.	partnership planning processes and in public-private
10	partnership plans;
11	(2) invite the participation of each relevant di-
12	rector of an Office of Small and Disadvantaged
13	Business Utilization under section 15(k) of the
14	Small Business Act 915 U.S.C. 644(k) in public-pri-
15	vate partnership planning processes and provide the
16	director access to public-private partnership plans,
17	(3) not later than 90 days after the date of en-
18	actment of this Act—
19	(A) identify and establish a list of all
20	NASA assets, services, and capabilities that are
21	available, or will be available, for public-private
22	partnership opportunities; and
23	(B) make the list under subparagraph (A)
24	available on NASA's website, in a searchable
25	format:

1	(4) periodically as needed, but not less than
2	once per year, update the list and website under
3	paragraph (3); and
4	(5) not later than 180 days after the date of
5	cuaetment of this Act, develop a policy and issue
6	guidance for a consistent, fair, and equitable method
7	for scheduling and establishing priority of use of the
8	NASA assets, services, and capabilities identified
9	under this subsection.
10	(c) Strengthening Small Business Aware-
11	NESS.—Not later than 180 days after the date of enact-
12	ment of this Act, the Administrator of NASA shall des-
13	ignate an official at each NASA Center—
14	(1) to serve as an advocate for small businesses
15	within the office that manages partnerships at each
16	Center; and
17	(2) to provide guidance to small businesses on
18	how to participate in public-private partnership op-
19	portunities with NASA.
20	SEC. 302. LEASE OF NON-EXCESS PROPERTY.
21	Section 20145(g) of title 51, United States Code, is
22	amended by striking "December 31, 2018" and inserting
23	"December 31, 2019".

1	SEC. 803. MAINTAINING A NATIONAL LABORATORY IN
2	SPACE.
3	(a) SENSE OF CONCRESS.—It is the sense of Con-
4	gress that—
5	(1) the United States national laboratory in
6	space, which currently consists of the United States
7	segment of the ISS (designated a national laboratory
8	under section 70905 of title 51, United States
9	Code)—
10	(A) benefits the scientific community and
1.1	promotes commerce in space;
12	(B) fosters stronger relationships among
13	NASA and other Federal agencies, the private
4	sector, and research groups and universities;
15	(C) advances science, technology, engineer-
16	ing, and mathematics education through utiliza-
7	tion of the unique microgravity environment;
18	and
19	(D) advances human knowledge and inter-
20	national cooperation;
21	(2) after the ISS is decommissioned, the United
22	States should maintain a national microgravity lab-
23	oratory in space;
4	(3) in maintaining a national microgravity lab-
5	oratory described in paragraph (2), the United
6	States should make appropriate accommodations for

1	different types of ownership and operational struc-
2	tures for the ISS and future space stations;
3	(4) the national microgravity laboratory de-
4	scribed in paragraph (2) should be maintained be-
5	youd the date that the ISS is decommissioned and
6	if possible, in cooperation with international space
7	partners to the extent practicable; and
8	(5) NASA should continue to support funda-
9	mental science research on future platforms in low-
10	Earth orbit and cis-lunar space, short duration sub-
11	orbital flights, drop towers, and other microgravity
12	testing environments.
13	(b) REPORT.—The Administrator of NASA shall
14	produce, in coordination with the National Space Council
15	and other Federal agencies as the Administrator deems
16	relevant, a report detailing the feasibility of establishing
17	a microgravity national laboratory Federally Funded Re-
18	search and Development Center to undertake the work re-
19	lated to the study and utilization of in-space conditions.
20	SEC. 304. PRESENCE IN LOW-EARTH ORBIT.
21	(a) Sense of Congress.—It is the sense of Con-
22	gress that—
23	(1) it is in the national and economic security
24	interests of the United States to maintain a contin-
25	nous human presence in low-Earth orbit; and

1	(2) low-Earth orbit should be utilized as a
2	testbed to advance human space exploration, sci-
3.	entific discoveries, and United States economic com-

- 4 petitiveness and commercial participation.
- 5 (b) Human Presence Requirement.—NASA shall
- 6 continuously maintain the capability for a continuous
- 7 human presence in low-Earth orbit through and beyond
- 8 the useful life of the ISS.

## 9 SEC. 305. CONTINUATION OF THE ISS.

- 10 (a) CONTINUATION OF THE INTERNATIONAL SPACE
- 11 STATION.—Section 501(a) of the National Aeronauties
- 12 and Space Administration Authorization Act of 2010 (42)
- 13 U.S.C. 18351(a)) is amended by striking "2024" and in-
- 14 serting "2030".
- 15 (b) MAINTENANCE OF THE UNITED STATES SEG-
- 16 MENT AND ASSURANCE OF CONTINUED OPERATIONS OF
- 17 THE INTERNATIONAL SPACE STATION.—Section 503(a) of
- 18 the National Aeronautics and Space Administration Au-
- 19 thorization Act of 2010 (42 U.S.C. 18353(a)) is amended
- 20 by striking "2024" and inserting "2030".
- 21 (c) RESEARCH CAPACITY ALLOCATION AND INTE-
- 22 GRATION OF RESEARCH PAYLOADS.—Section 504(d) of
- 23 the National Aeronautics and Space Administration Au-
- 24 thorization Act of 2010 (42 U.S.C. 18354(d)) is amended

1	by striking "2024" each place it appears and inserting
2	"2030".
3	(d) Maintaining Use Through at Least 2030.—
4	Section 70907 of title 51, United States Code, is amend-
5.	ed—
6	(1) in the heading, by striking "2024" and in-
7	serting "2030"; and
8	(2) by striking "2024" each place it appears
9	and inserting "2030".
10	SEC. 306. UNITED STATES POLICY ON ORBITAL DEBRIS.
11	(a) SENSE OF CONGRESS.—It is the sense of Con-
12	gress that—
13	(1) existing guidelines for the mitigation of or-
14	bital debris may not be adequate to ensure long term
15	usability of the space environment for all users; and
16	(2) the United States should continue to exer-
17	cise a leadership role in developing orbital debris
18	prevention standards that can be used by all space-
19	faring nations.
20	(b) POLICY OF THE UNITED STATES.—It is the pol-
21	icy of the United States to have consistent standards
22	across Federal agencies that minimize the risks from or-
23	bital debris in order to—
24	(1) protect the public health and safety;
25	(2) protect humans in space;

1	(3) protect the national security interests of the
2	United States;
3	(4) protect the safety of property;
4	(5) protect space objects from interference; and
5	(6) protect the foreign policy interests of the
6.	United States.
7	SEC. 307. LOW-EARTH ORBIT COMMERCIALIZATION PRO-
8	GRAM.
9	(a) PROGRAM AUTHORIZATION.—The Administrator
10	of NASA may establish a low-Earth orbit commercializa-
11	tion program to encourage the fullest commercial use and
12	development of space by the private sector of the United
13	States.
14	(b) CONTENTS.—The program under subsection (a)
15	may include—
16	(1) activities to stimulate demand for human
17	space flight products and services in low-Earth orbit;
18	(2) activities to improve the capability of the
19	ISS to accommodate commercial users; and
20	(3) subject to subsection (e), activities to accel-
21	erate the development of commercial space stations
22	or commercial space habitats.
23	(e) CONDITIONS.—
24	(1) Cost share.—The Administrator shall give
25	priority to an activity under subsection (b)(3) in

Ţ	when the brivate sector entity conducting the activ
2	ity provides a share of the coast o develop and oper-
3	ate the activity.
4	(2) COMMERCIAL SPACE HABITAT.—The Ad-
.5	ministration may not engage in an activity under
6	subsection (b)(3) until after the date that the Ad-
7	ministrator of NASA awards a contract for the use
8	of a docking port on the ISS.
9	(d) REPORTS.—Not later than 30 days after the date
10	that an award or agreement is made under subsection
11	(b)(3), the Administrator of NASA shall submit to the
12	Committee on Commerce, Science, and Transportation of
13	the Senate and the Committee on Science, Space, and
14	Technology of the House of Representatives a report on
15	the development of the commercial space station or com-
16	mercial space habitat, as applicable, including a business
17	plan for how the activity will—
18	(1) meet NASA's future requirements for low-
19	Earth orbit human space flight services; and
20	(2) satisfy the non-Federal funding requirement
21	under subsection $(c)(1)$ .
22	(e) AUTHORIZATION OF APPROPRIATIONS,—There is
23	authorized to be appropriated to the Administrator of
24	NASA to carry out a low-Earth compercialization mo-

1	gram under this section \$150,000,000 for fiscal year
2	2020.
3	SEC. 308. BUREAU OF SPACE COMMERCE.
4	(a) IN GENERAL.—Chapter 507 of title 51, United
5	States Code, is amended—
6	(1) in the heading, by striking "OFFICE" and
7	inserting "BUREAU";
8	(2) by amending section 50701 to read as fol-
9	lows:
10	"§ 50701. Definition of Bureau
11	"In this chapter, the term 'Bureau' means the Bu-
12	reau of Space Commerce established in section 50702 of
13	this title.";
14	(3) in section 50702—
15	(A) by amending subsection (a) to read as
16	follows:
17	"(a) In General.—There is established within the
18	Department of Commerce a Bureau of Space Commerce.";
19	(B) by amending subsection (b) to read as
20	follows:
21.	"(b) Assistant Secretary.—The Bureau shall be
22	headed by an Assistant Secretary for Space Commerce,
23	to be appointed by the President with the advice and con-
24	sent of the Senate and compensated at level II or III of
25	the Executive Schedule, as determined by the Secretary

i	of Commerce. The Assistant Secretary shall report directly
2	to the Scoretary of Commerce.";
3	(C) in subsection (c)—
4	(i) in the matter preceding paragraph
5	(1), by striking "Office" and inserting
6	"Bureau";
7	(ii) in paragraph (2), by inserting ",
8	including activities licensed under chapter
9	601 of this title" before the semicolon; and
10	(iii) in paragraph (5), by striking
11	"Position," and inserting "Positioning,";
12	and
13	(D) in subsection (d)—
14	(i) in the heading, by striking "DI-
15	RECTOR" and inserting "ASSISTANT SEC-
16	RETARY";
17	(ii) in the matter preceding paragraph
18	(1)—
19	(I) by striking "Director" and in-
20	serting "Assistant Secretary"; and
21	(II) by striking "Office shall"
22	and inserting "Bureau shall, under
23	the direction and supervision of the
24	Secretary,";

1	(iii) by redesignating paragraphs (1)
.2	through (7) as paragraphs (2) through (9),
3	respectively; and
4	(iv) by inserting before paragraph (3),
5	as redesignated, the following:
6	"(1) to oversee the issuing of licenses under
7	chapter 601 of this title;
8	"(2) coordinating Department policy impacting
9	commercial space activities and working with other
10	executive agencies to promote policies that advance
11	commercial space activities;"; and
12	(v) in paragraph (8), as redesignated,
13	by inserting ", consistent with the inter-
14	national obligations, foreign policy, and na-
15	tional security interests of the United
16	States' before the semicolon;
17	(4) in section 50703—
18	(A) by striking "Office" and inserting
19	"Bureau"; and
20	(B) by striking "Committee on Science and
21	Technology of the House of Representatives"
22	and inserting "Committee on Science, Space,
23	and Technology of the House of Representa-
24	tives"; and
25	(5) by adding at the end the following:

1	"§ 50704. Authorization of appropriations
.2	"There is authorized to be appropriated to the Sec-
3	retary of Commerce to carry out this chapter \$10,000,000
4	for each of fiscal years 2020 through 2024;".
5	(b) TECHNICAL AND CONFORMING AMENDMENTS.—
6	(1) TABLE OF CONTENTS.—The table of con-
7	tents of chapter 507 of title 51, United States Code,
8	is amended—
9	(A) in the item relating to section 50701,
10	by striking "Office" and inserting "Bureau";
11	and
12	(B) by adding after the item relating to
13	section 50703 the following:
	"5.0704. Authorization of appropriations.".
14	(2) TABLE OF CHAPTERS.—The table of chap-
15	ters of title 51, United States Code, is amended in
16	the item relating to chapter 507 by striking "Office"
17	and inserting "Bureau".
8	(3) Cooperation with former soviet re-
9	PUBLICS.—Section 218 of the National Aeronautics
20	and Space Administration Authorization Act, Fiscal
21	Year 1993 (51 U.S.C. 50702 note) is amended by
22	striking "Office" each place it appears and inserting
23	"Bureau".